MCL Reconstruction

<u>Postop</u>	<u>Goals</u>	<u>Precautions</u>	<u>Exercises</u>
PHASE I Weeks 0-3 PT: 1-2x/week HEP daily	Passive extension to 0 only Reduce swelling 90° flexion by 2 weeks post-op Maintain patella glide Achieve good quad set at 0° and 90°	Brace removal prn by therapist for exercises Brace locked at 0° for sleeping until 0° extension maintained NWB immediately post-op. Brace locked at 0° for ambulation Full ROM	 0° quad sets (consider NMES or biofeedback for protocol control). Assisted flexion (dangle) with uninvolved leg crossed under ankle. 90° quadriceps isometrics once 90° flexion achieved. Passive hyperextension (sitting) to zero ASAP. Straight leg raises, all planes, with brace locked in full extension. Calf, hamstring stretching, calf pumps. Heel slides.
PHASE II Weeks 3-6 PT: 1- 2x/week HEP daily	Passive extension to zero mandatory 50% WB in brace and w/ crutches Restore patella mobility to normal Achieve good quad set at 0° and 90° Brace until 6 weeks po Full ROM	Avoid terminal open chain quad PRE	 Patella and scar tissue mobilization by therapist and patient. Straight leg raises continue in brace until strength is sufficient to prevent extension lag. No SLR w/ weights Isometric quad sets at 90° knee flexion (use a belt looped around leg of chair). Theraband™ leg press from 100° to 0°. Calf strengthening (Heel raises standing, sitting, and Theraband™). Closed kinetic chain quadriceps strengthening with bands only Stationary bike – progress light resistance as tolerated.

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PHASE III	Regain full motion to flexion.	Avoid terminal open chain quad PRE	Continue Range of motion / flexibility to equal opposite side	
Weeks: 6-10 PT 2x/week HEP daily	Restore patella mobility to normal. Begin improving proprioception. Normal community ambulation. Increasing strength with program in therapy and / or club.	No jumping or cutting activities	 Continue closed kinetic chain quad strengthening and progress to single leg mini squats (pt may use weighted back pack), single/ double leg press, wall sits to 90°, stepups, lateral step-up, and weighted terminal knee extension. Continue to progress hamstring, calf, and hip strengthening (side steps, resisted walking, raises, curls). Stationary bike – increase time and resistance levels. Progress to interval program. Elliptical, Nordic Trac, Stairmaster, treadmill machines and walking for conditioning with attention paid to patella symptoms. Pool programs – walking initially with progression to deep-water aqua jogging. Continue to progress proprioception and balance activities (ball toss, balance boards, foam, and mini trampoline). Open chain knee extension from 100° to 145° Isometric quad sets at 90° knee flexion – sitting and suring (ip. Hip floyed and poutral). 	
PHASE IV	Full ROM Normal patella mobility.	No sudden starts/stops or quick change in direction.	and supine (ie. Hip flexed and neutral). 1. Continue strength building program by increasing weights and decreasing repetitions per set. 3.4	
Weeks:	mobility.	quick change in direction.	weights and decreasing repetitions per set, 3-4 times per week.	
10-20	Gain sufficient strength, proprioception to initiate straight jogging. If swelling limits flexion – pt	No jumping or cutting activities	 Progress toward full weight-bearing jog at 12 weeks. Begin on treadmill and advance to track (initially walking curves). Slowly increase the pace and distance. Advanced proprioception activities. 	
,	to take 2 Aleve PO BID.		4. Isokinetic strengthening full range of motion if available.5. Open chain knee extension 30° to 0°	
PHASE V	Restore advanced proprioception	Quadriceps/hamstring strength 80% of uninvolved thigh required for phase V.	 4 week return to sports program/ agility program issued by therapist / physician. Slow progression into plyometric training. 	
Weeks: 20-24	Restore normal muscle strength and endurance	No fast or aggressive cutting	3. Cross overs	
PT: 1-2x/week	_		5. Box / shuttle running	
HEP daily	Safely restore functional sports performance in controlled setting.	No hopping down from > 12" height	6. Accelerating / decelerating sprints7. Progression into sport specific drills.	
	Slow and controlled cutting activities under light load.			
PHASE VI	Equal performance lower extremities on single and 3 hop test			
Begin 6 months	Symmetric performance of basic and sport specific agility drills.			
post-op.	Return to sports.			
Supervised but independent program				